

Mainsail: 7000522 Dan-1 Membrane Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000522 Dan\7000522

Initial Design Date: 30/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 48.261Ft
 Leech geodesic: 50.220Ft
 Foot geodesic: 15.289Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.695Ft
 Three-quarter width (MTW): 4.956Ft
 Half width (MHW): 8.988Ft
 Quarter width (MQW): 12.367Ft
 Foot median: 49.215Ft
 ORC Mainsail area: 412.110Ft?
 Surface area: 419.098Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	3.574Ft	0.451Ft	72.748?	40.279Ft	41.754Ft	Full
66.667%	6.479Ft	0.628Ft	72.748?	32.303Ft	33.403Ft	Full
50.000%	4.593Ft	0.619Ft	72.748?	24.328Ft	25.053Ft	
33.333%	4.593Ft	0.511Ft	72.748?	16.352Ft	16.702Ft	
16.667%	3.609Ft	0.288Ft	72.748?	8.377Ft	8.351Ft	

Reefing Points

1, Luff: 6.513Ft ; Leech: 6.741Ft ; Offset: 0.000Ft ; Number Eyelets: 3
 2, Luff: 13.268Ft ; Leech: 13.730Ft ; Offset: 0.000Ft ; Number Eyelets: 3

Draft Stripes

1, Luff: 12.062Ft ; Leech: 12.156Ft ;
 2, Luff: 24.849Ft ; Leech: 25.491Ft ;
 3, Luff: 36.190Ft ; Leech: 37.380Ft ;

Luff Curve

		Fanned Luff (@ 5.00% [0.761Ft])	Before BSeam
48.259Ft,	0.000Ft	100% (48.261Ft) :	0.000Ft
42.245Ft,	-0.111Ft	90% (43.436Ft) :	0.168Ft
36.194Ft,	-0.191Ft	80% (38.609Ft) :	0.326Ft
30.129Ft,	-0.225Ft	70% (33.783Ft) :	0.452Ft
24.129Ft,	-0.229Ft	60% (28.957Ft) :	0.520Ft
17.982Ft,	-0.212Ft	50% (24.131Ft) :	0.534Ft
12.065Ft,	-0.170Ft	40% (19.304Ft) :	0.493Ft
6.014Ft,	-0.096Ft	30% (14.478Ft) :	0.408Ft
0.000Ft,	0.000Ft	20% (9.652Ft) :	0.286Ft
		10% (4.826Ft) :	0.141Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.197Ft	0.197Ft	0.197Ft
Zone: 2	0.197Ft	0.197Ft	0.197Ft
Zone: 3	0.197Ft	0.197Ft	0.197Ft
Zone: 4	0.197Ft	0.197Ft	0.197Ft
Zone: 5	0.197Ft	0.197Ft	0.197Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	35.29
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	418.64	1\1,2\1,3\1,4\1,5\1

